

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
 Data File : VY022943.D
 Acq On : 03 Jul 2025 15:23
 Operator : SY/MD
 Sample : Q2487-06
 Misc : 5.07g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 G2(9)

Quant Time: Jul 07 08:23:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	255058	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	488190	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	486353	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	207222	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	152567	53.594	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	107.180%
35) Dibromofluoromethane	7.628	113	158047	53.234	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	106.460%
50) Toluene-d8	10.103	98	602738	51.161	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	102.320%
62) 4-Bromofluorobenzene	12.401	95	209808	55.398	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	110.800%

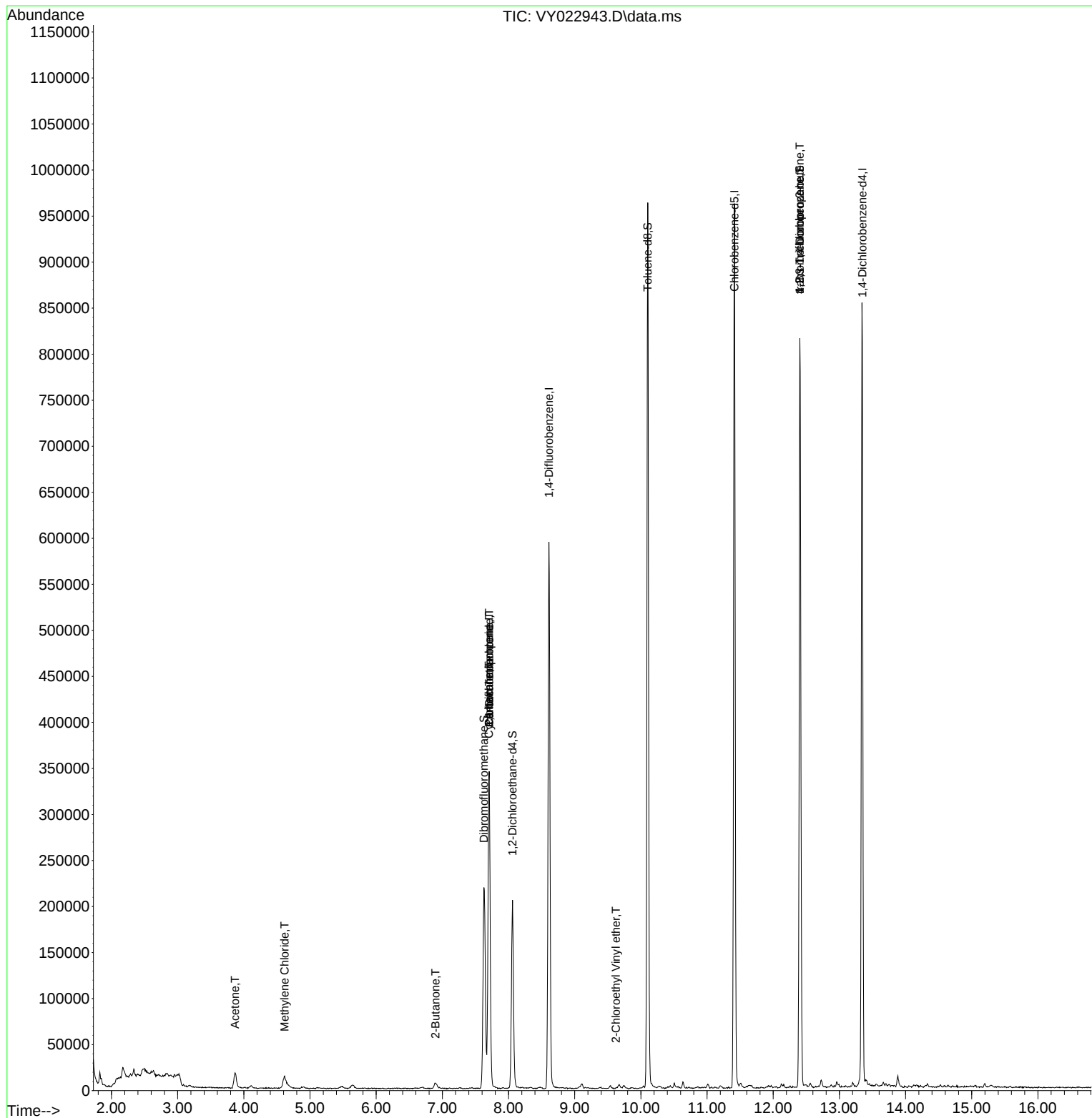
Target Compounds						Qvalue
16) Acetone	3.866	43	28949	53.804	ug/l #	84
20) Methylene Chloride	4.616	84	8851	2.605	ug/l	90
25) 2-Butanone	6.896	43	9937	12.689	ug/l #	81
31) Cyclohexane	7.701	56	7665	1.568	ug/l #	7
36) 1,1-Dichloropropene	7.707	75	22737	5.052	ug/l #	50
38) Carbon Tetrachloride	7.707	117	26658	5.614	ug/l #	17
58) 2-Chloroethyl Vinyl ether	9.621	63	26	15.670	ug/l #	48
76) 1,2,3-Trichloropropane	12.401	75	119460	56.467	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	119460	142.658	ug/l #	11

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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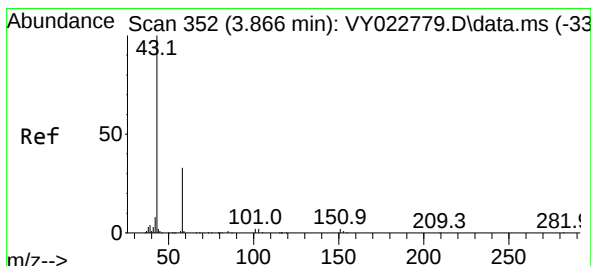
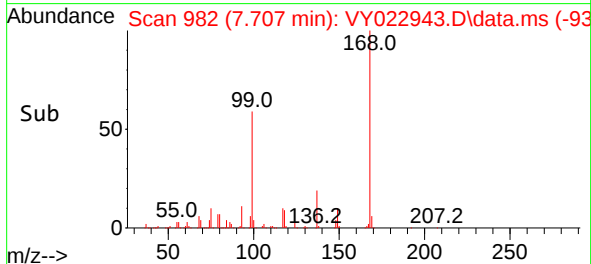
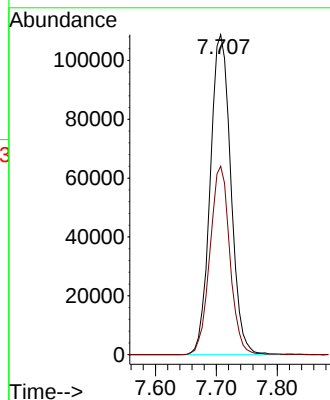
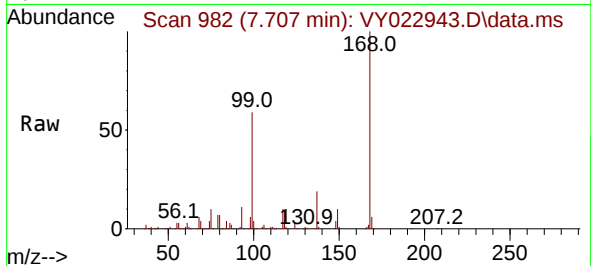




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022943.D
Acq: 03 Jul 2025 15:23

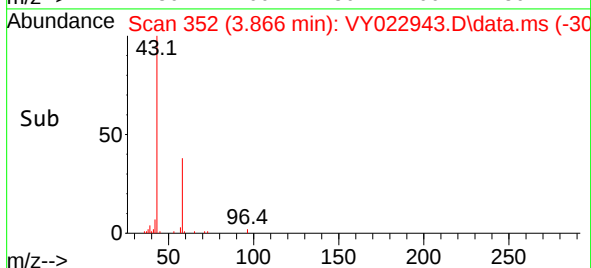
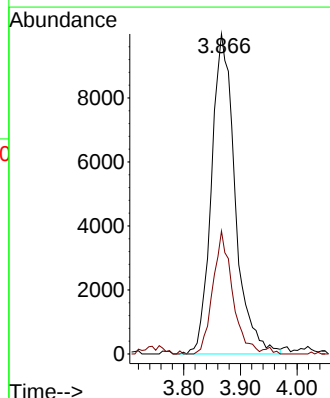
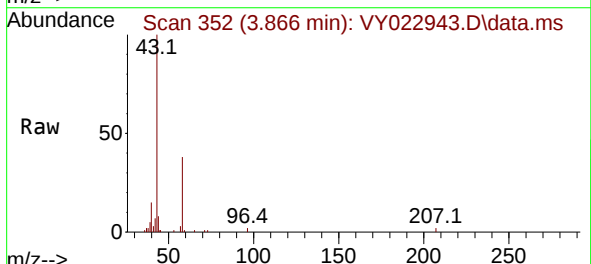
Instrument :
MSVOA_Y
ClientSampleId :
G2(9)

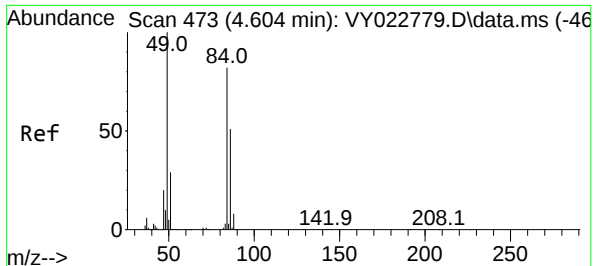
Tgt Ion:168 Resp: 255058
Ion Ratio Lower Upper
168 100
99 58.9 44.3 66.5



#16
Acetone
Concen: 53.804 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.012 min
Lab File: VY022943.D
Acq: 03 Jul 2025 15:23

Tgt Ion: 43 Resp: 28949
Ion Ratio Lower Upper
43 100
58 38.4 24.0 36.0#

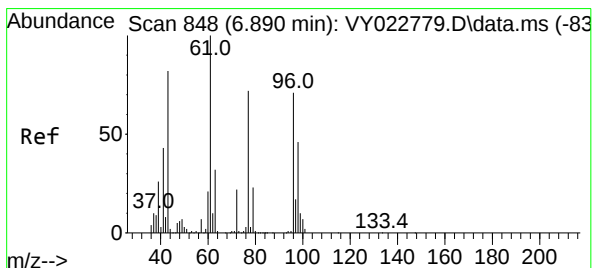
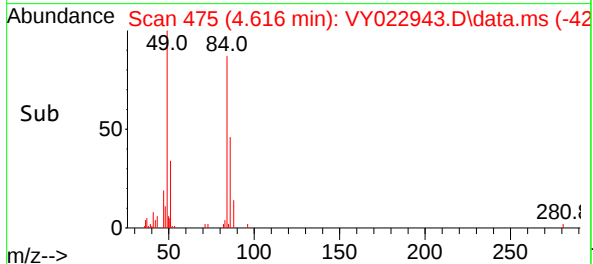
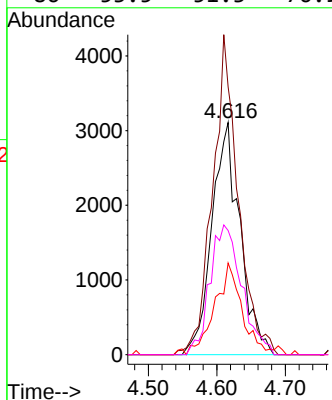
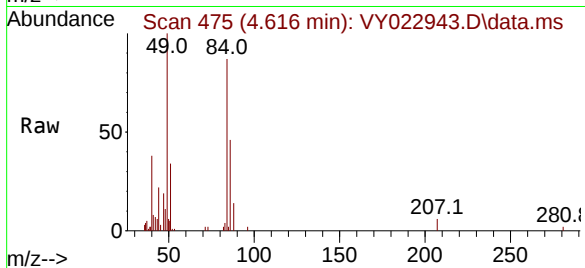




#20
Methylene Chloride
Concen: 2.605 ug/l
RT: 4.616 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY022943.D
Acq: 03 Jul 2025 15:23

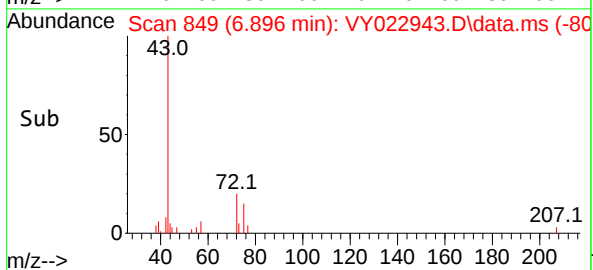
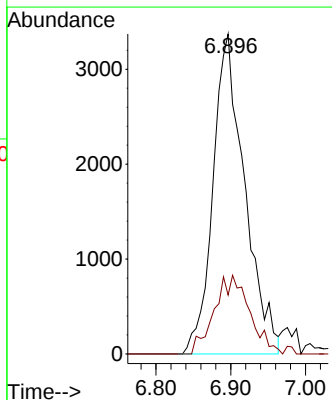
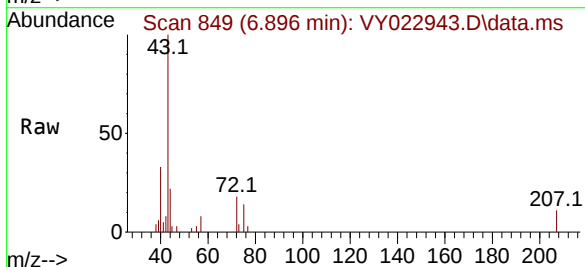
Instrument :
MSVOA_Y
ClientSampleId :
G2(9)

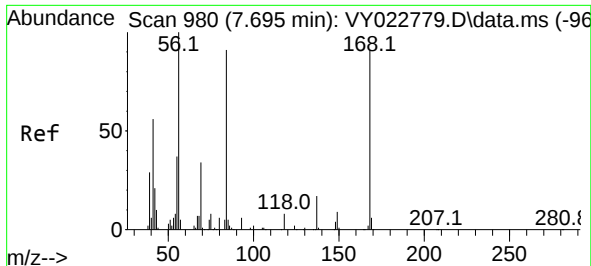
Tgt Ion:	84	Resp:	8851
Ion	Ratio	Lower	Upper
84	100		
49	115.4	101.9	152.9
51	37.5	29.8	44.8
86	53.5	51.3	76.9



#25
2-Butanone
Concen: 12.689 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY022943.D
Acq: 03 Jul 2025 15:23

Tgt Ion:	43	Resp:	9937
Ion	Ratio	Lower	Upper
43	100		
72	18.4	22.9	34.3#

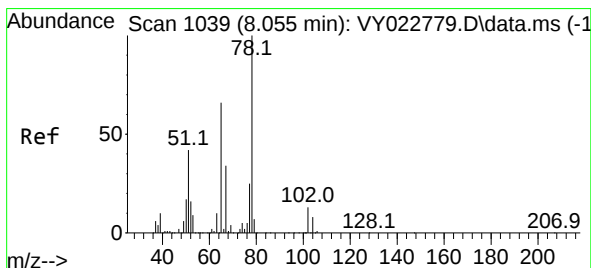
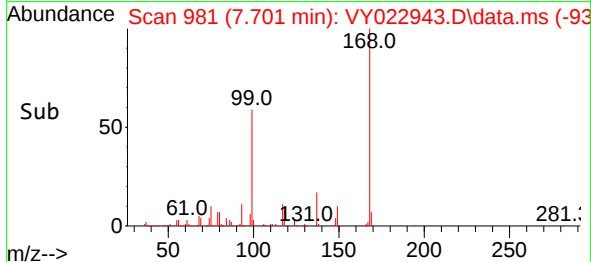
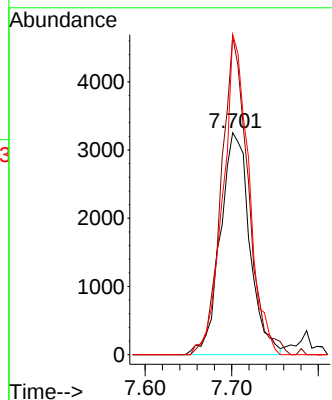
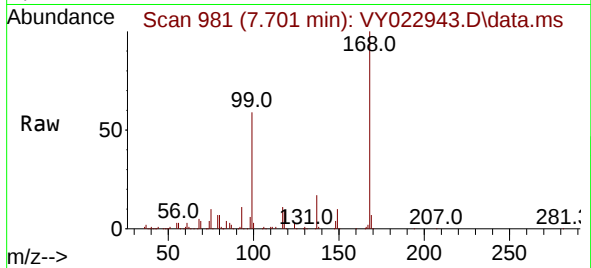




#31
Cyclohexane
Concen: 1.568 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022943.D
Acq: 03 Jul 2025 15:23

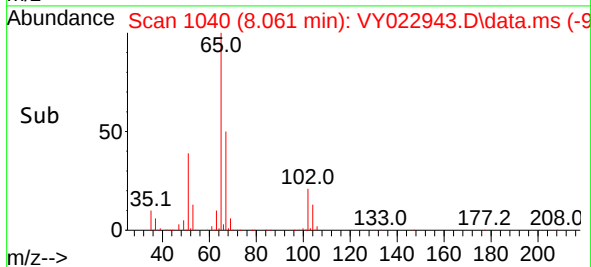
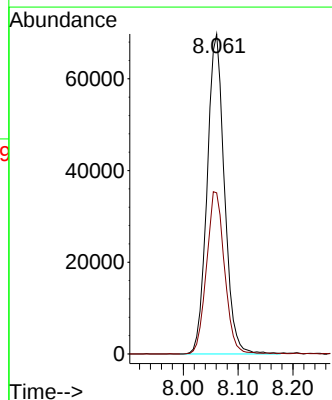
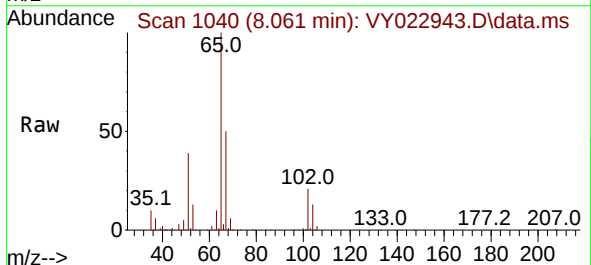
Instrument :
MSVOA_Y
ClientSampleId :
G2(9)

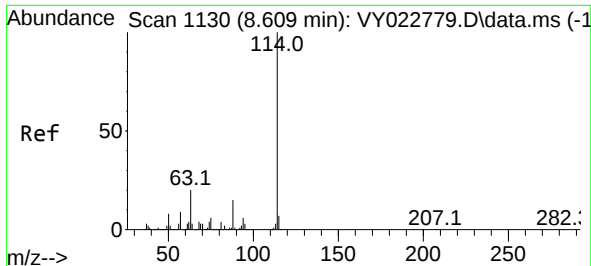
Tgt Ion: 56 Resp: 7665
Ion Ratio Lower Upper
56 100
69 143.5 27.0 40.6#
84 144.2 72.6 109.0#



#33
1,2-Dichloroethane-d4
Concen: 53.594 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022943.D
Acq: 03 Jul 2025 15:23

Tgt Ion: 65 Resp: 152567
Ion Ratio Lower Upper
65 100
67 52.7 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022943.D

Acq: 03 Jul 2025 15:23

Instrument :

MSVOA_Y

ClientSampleId :

G2(9)

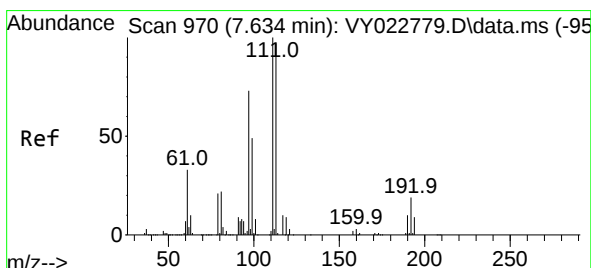
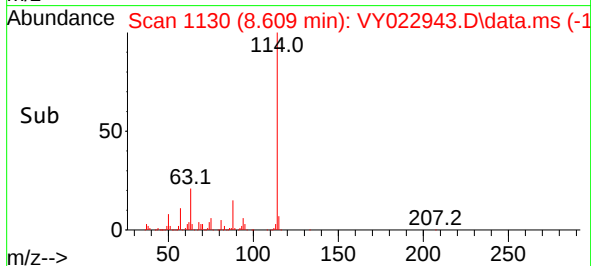
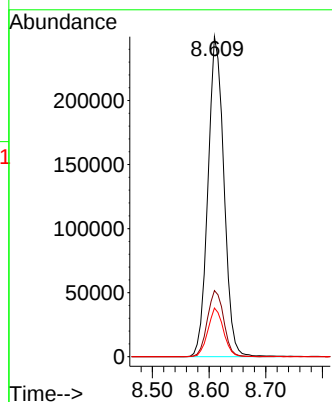
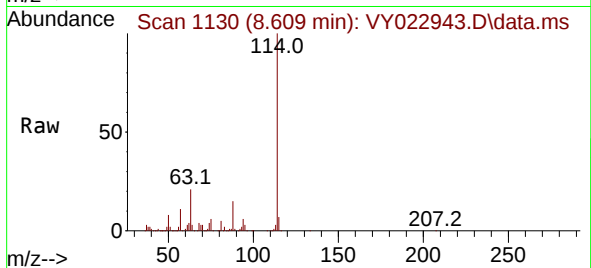
Tgt Ion:114 Resp: 488190

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.8

88 15.2 0.0 27.8



#35

Dibromofluoromethane

Concen: 53.234 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.012 min

Lab File: VY022943.D

Acq: 03 Jul 2025 15:23

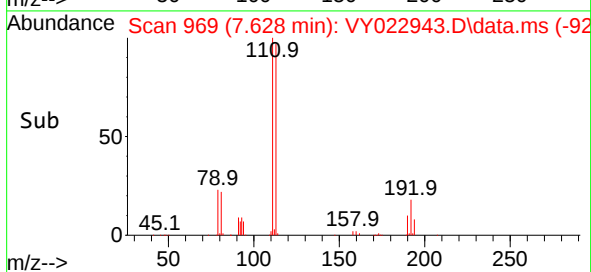
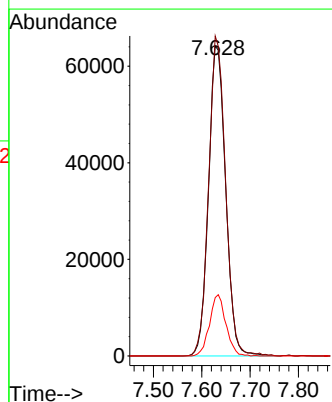
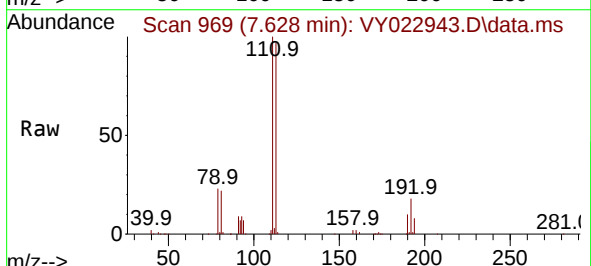
Tgt Ion:113 Resp: 158047

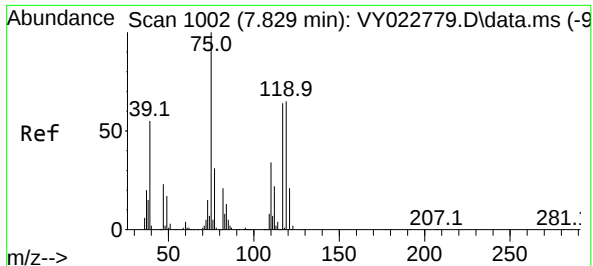
Ion Ratio Lower Upper

113 100

111 102.0 81.1 121.7

192 18.9 14.2 21.2





#36

1,1-Dichloropropene

Concen: 5.052 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.134 min

Lab File: VY022943.D

Acq: 03 Jul 2025 15:23

Instrument :

MSVOA_Y

ClientSampleId :

G2(9)

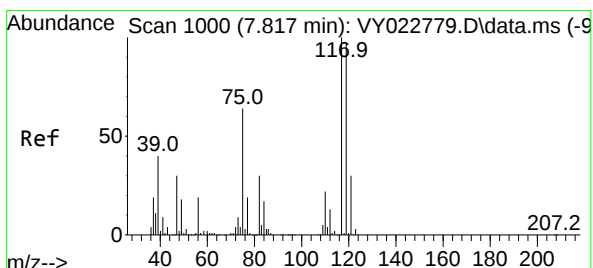
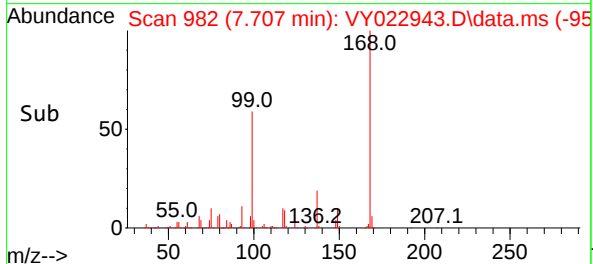
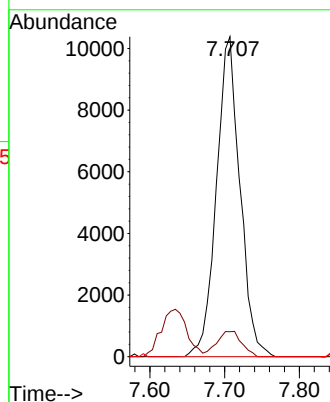
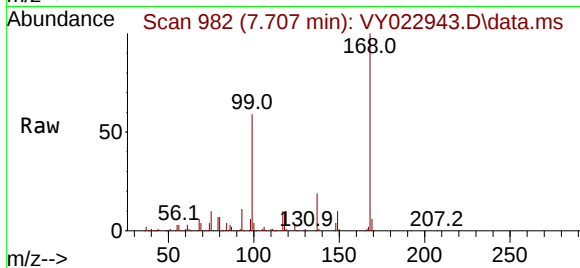
Tgt Ion: 75 Resp: 22737

Ion Ratio Lower Upper

75 100

110 8.4 16.9 50.7#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 5.614 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.116 min

Lab File: VY022943.D

Acq: 03 Jul 2025 15:23

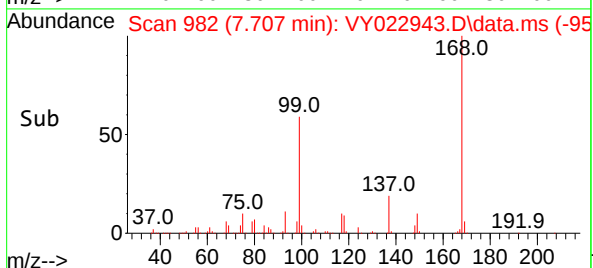
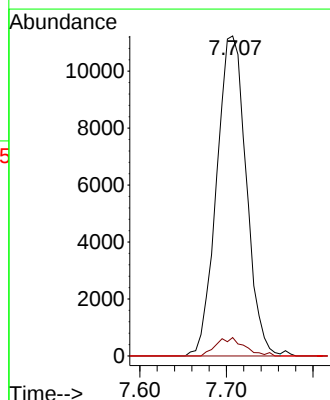
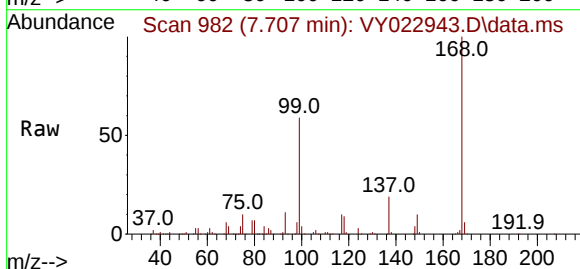
Tgt Ion: 117 Resp: 26658

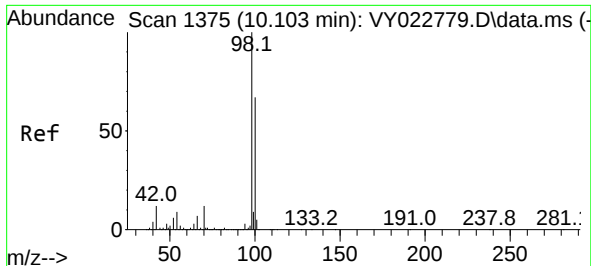
Ion Ratio Lower Upper

117 100

119 5.8 75.0 112.6#

121 0.0 25.0 37.4#

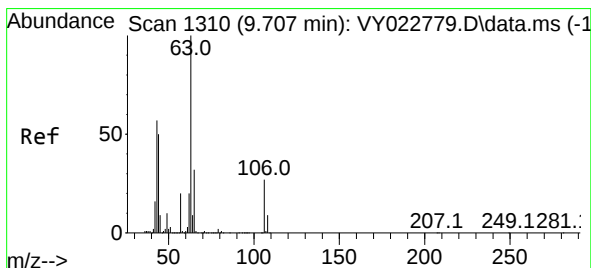
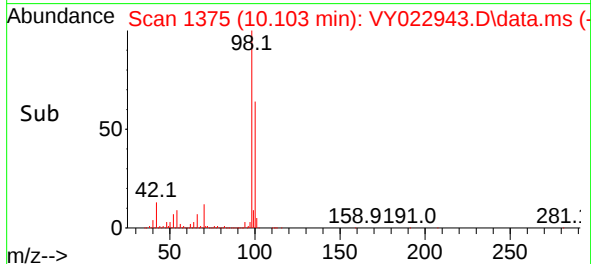
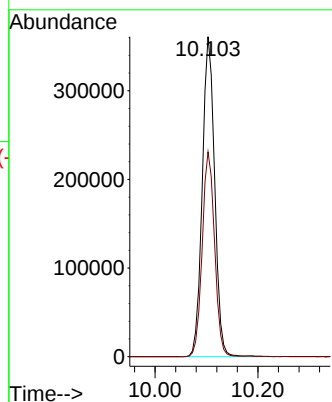
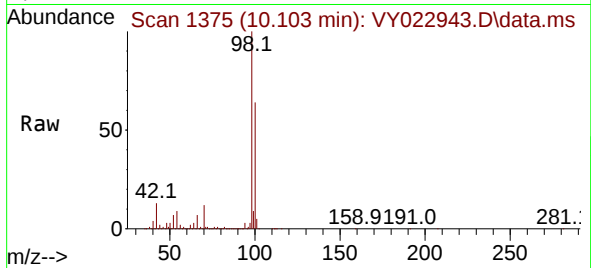




#50
Toluene-d8
Concen: 51.161 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022943.D
Acq: 03 Jul 2025 15:23

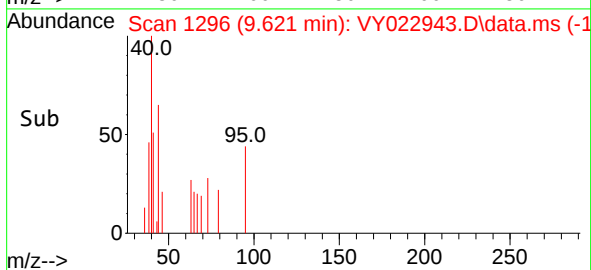
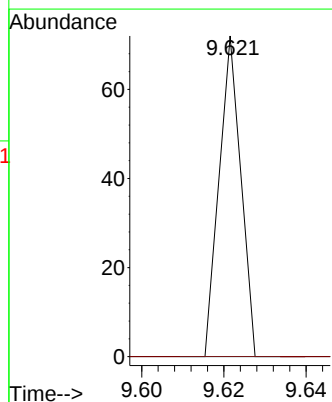
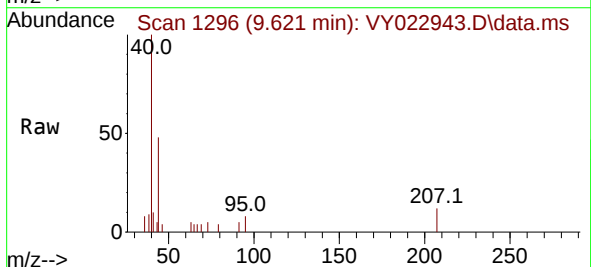
Instrument :
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ClientSampleId :
G2(9)

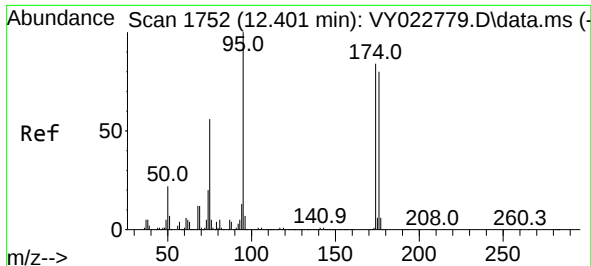
Tgt Ion: 98 Resp: 602738
Ion Ratio Lower Upper
98 100
100 63.9 51.4 77.0



#58
2-Chloroethyl Vinyl ether
Concen: 15.670 ug/l
RT: 9.621 min Scan# 1296
Delta R.T. -0.092 min
Lab File: VY022943.D
Acq: 03 Jul 2025 15:23

Tgt Ion: 63 Resp: 26
Ion Ratio Lower Upper
63 100
106 0.0 21.6 32.4#





#62

4-Bromofluorobenzene

Concen: 55.398 ug/l

RT: 12.401 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022943.D

Acq: 03 Jul 2025 15:23

Instrument :

MSVOA_Y

ClientSampleId :

G2(9)

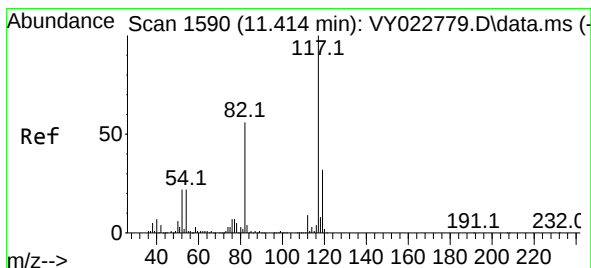
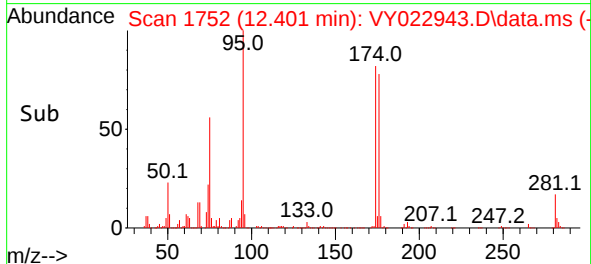
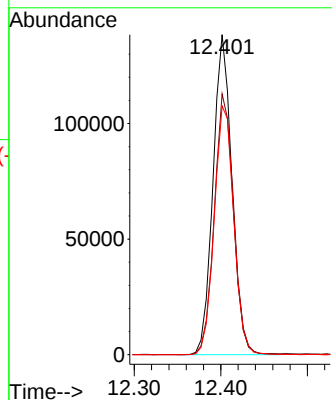
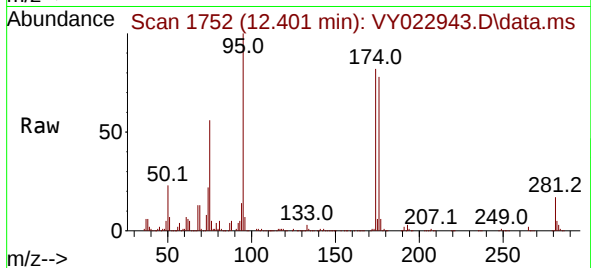
Tgt Ion: 95 Resp: 209808

Ion Ratio Lower Upper

95 100

174 83.6 0.0 170.0

176 80.2 0.0 166.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY022943.D

Acq: 03 Jul 2025 15:23

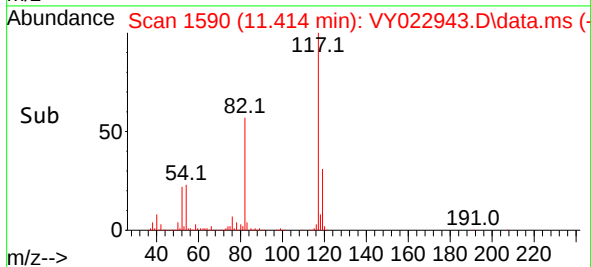
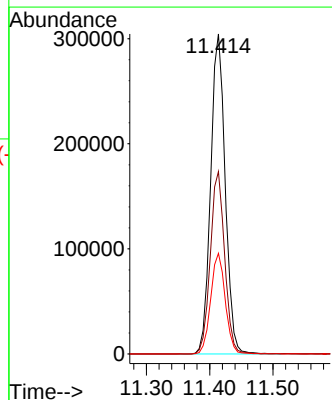
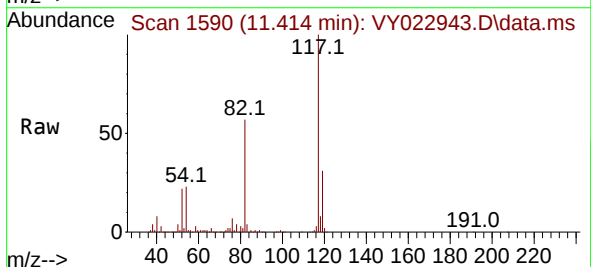
Tgt Ion: 117 Resp: 486353

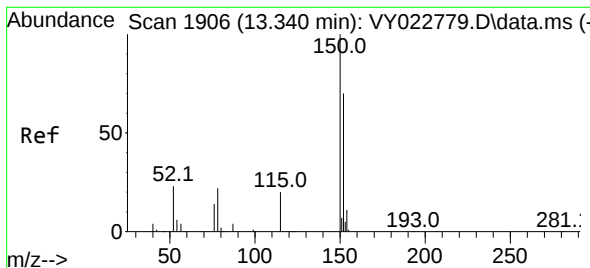
Ion Ratio Lower Upper

117 100

82 57.0 44.6 66.8

119 31.5 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1906

Delta R.T. -0.000 min

Lab File: VY022943.D

Acq: 03 Jul 2025 15:23

Instrument :

MSVOA_Y

ClientSampleId :

G2(9)

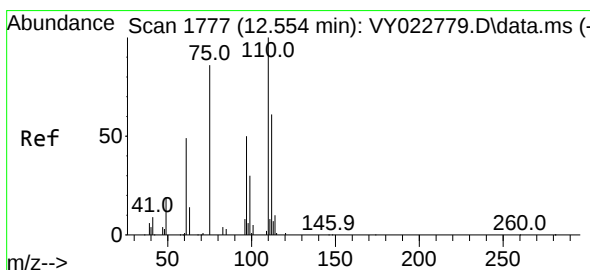
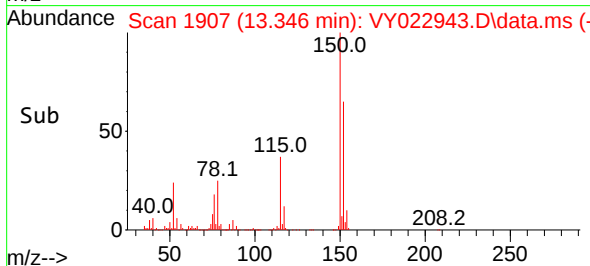
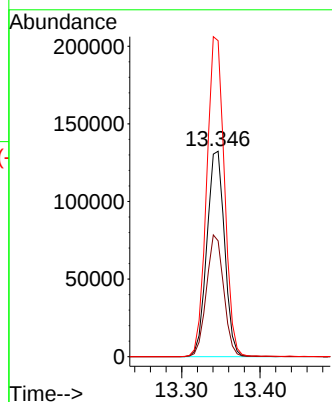
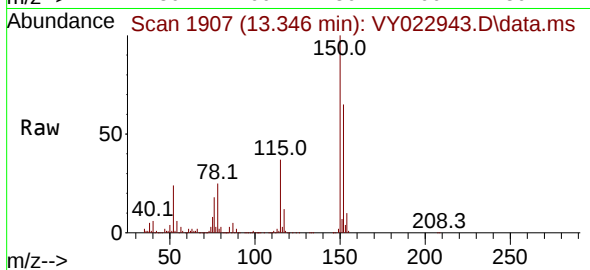
Tgt Ion:152 Resp: 207222

Ion Ratio Lower Upper

152 100

115 58.0 28.9 86.7

150 156.1 0.0 349.6



#76

1,2,3-Trichloropropane

Concen: 56.467 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.153 min

Lab File: VY022943.D

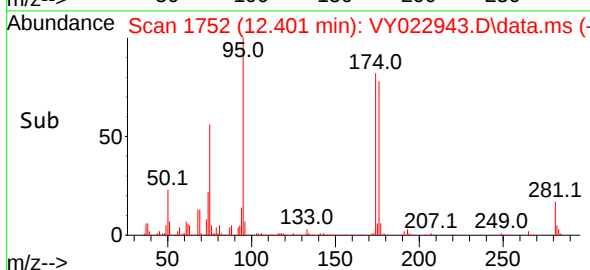
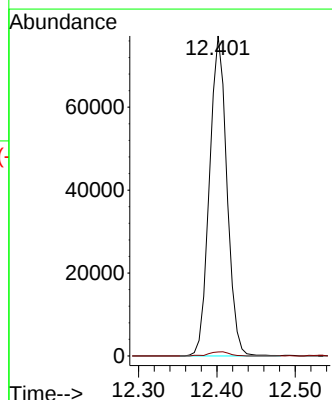
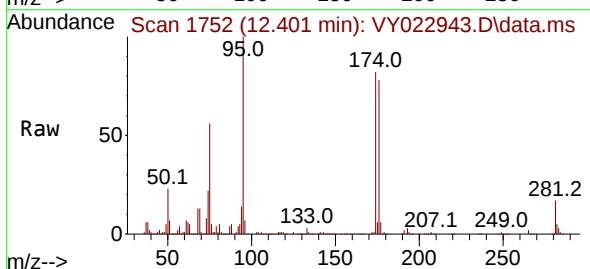
Acq: 03 Jul 2025 15:23

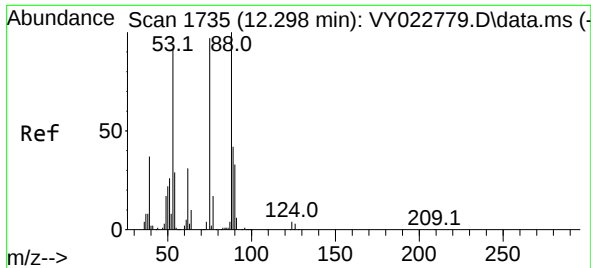
Tgt Ion: 75 Resp: 119460

Ion Ratio Lower Upper

75 100

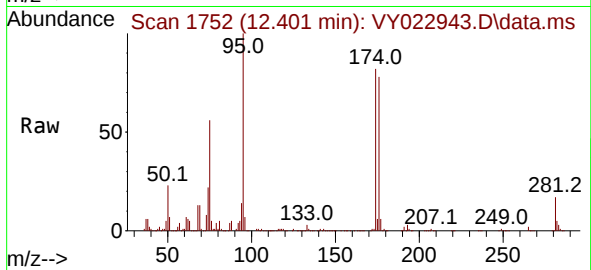
77 1.5 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 142.658 ug/l
 RT: 12.401 min Scan# 11
 Delta R.T. 0.097 min
 Lab File: VY022943.D
 Acq: 03 Jul 2025 15:23

Instrument :
 MSVOA_Y
 ClientSampleId :
 G2(9)



Tgt Ion: 75 Resp: 119460
 Ion Ratio Lower Upper
 75 100
 53 0.2 78.5 117.7#
 89 0.6 35.7 53.5#

